

2836-205965



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JUNE 04, 1998

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 JAMES J. MURPHY  
 5400 RENAISSANCE TOWER  
 1201 ELM STREET  
 DALLAS, TEXAS 75270



\*100686362A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/06/1998

REEL/FRAME: 9083/0528  
 NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
 MALCOLM, RONALD D., JR.

DOC DATE: 03/23/1998

ASSIGNOR:  
 KLAAS, JEFF

DOC DATE: 03/23/1998

ASSIGNOR:  
 GENTRY, MARK

DOC DATE: 03/23/1998

ASSIGNOR:  
 MATTHEWS, PHILLIP

DOC DATE: 03/23/1998

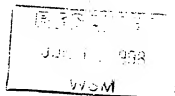
ASSIGNEE:  
 CRYSTAL SEMICONDUCTOR CORP.  
 4210 SOUTH INDUSTRIAL DRIVE  
 AUSTIN, TEXAS 78744

SERIAL NUMBER: 08949563  
 PATENT NUMBER:

FILING DATE: 10/14/1997  
 ISSUE DATE:

DOCKETED

DATE: 6/12/98  
 BY: [signature]



PEARLENE FOSTER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

04-14-1998



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ATTORNEY  
DOCKET NO. 075701 (2836-P059US)

PATENT  
ASSIGNMENT COVER LETTER



1

Box Assignment  
Commissioner of Patents and Trademarks  
Washington, D.C. 20231



ASSIGNMENT COVER LETTER ACCOMPANYING  
NEW PATENT APPLICATION

1. Particulars of the application for which the accompanying assignment applies are as follows:

Inventor(s):

- (1) Ronald D. Malcolm Jr.
- (2) Jeff Klaas
- (3) Mark Gentry
- (4) Phillip Matthews

Title of Invention:

SINGLE-CHIP AUDIO CIRCUITS, METHODS AND  
SYSTEMS USING THE SAME

2. Execution Date of Application:

- By
- (1) Ronald D. Malcolm Jr. on March 23, 1998
  - (2) Jeff Klaas on March 23, 1998
  - (3) Mark Gentry on March 23, 1998
  - (4) Phillip Matthews on March 23, 1998

3. Name of Assignor(s):

- By
- (1) Ronald D. Malcolm Jr.
  - (2) Jeff Klaas
  - (3) Mark Gentry
  - (4) Phillip Matthews

4. Name and Address of Assignee(s):

- (1) Crystal Semiconductor Corp.  
4210 South Industrial Drive  
Austin, Texas 78744

5. A brief description of what the accompanying document intends to accomplish is that it is an:

**An assignment of entire right, title and interest.**

Execution Date of Assignment:

By

- (1) Ronald D. Malcolm Jr. on March 23, 1998
- (2) Jeff Klaas on March 23, 1998
- (3) Mark Gentry on March 23, 1998
- (4) Phillip Matthews on March 23, 1998

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6. Fee payment is provided for as follows:

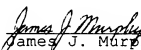
**\$40.00**

7. Please return the recorded document to:

**James J. Murphy  
Winstead Sechrest & Minick P.C.  
5400 Renaissance Tower  
1201 Elm Street  
Dallas, Texas 75270  
Registration No. 34,503  
Telephone: (214) 745-5374**

8. The undersigned attorney states that the information contained on this cover sheet is true and correct to the best of his knowledge and belief.

Enclosed is a check in the amount of \$40.00. Please charge any additional fees or credit any overpayment to Deposit Account No. 23-2426 of **Winstead Sechrest & Minick P.C.** A duplicate copy of this sheet is enclosed.

  
James J. Murphy  
Reg. No. 34,503  
5400 Renaissance Tower  
1201 Elm Street  
Dallas, Texas 75270  
(214) 745-5374

March 31, 1998

### ASSIGNMENT

**WHEREAS**, I the undersigned inventor, of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

**WHEREAS**, Crystal Semiconductor Corp. (hereinafter referred to as "Assignee"), a Delaware corporation, with an address of 4210 South Industrial Drive, Austin, Texas 78744, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

**NOW, THEREFORE**, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in ITS own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

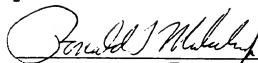
This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention:

SINGLE-CHIP AUDIO CIRCUITS, METHODS AND  
SYSTEMS USING THE SAME

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Signature of Inventor:  
Inventor's Name:  
Residence (City, County, State)

  
Ronald D. Malcolm Sr. ~~1987~~  
Austin, Travis County, Texas


Date:

3-23-98

Date Application Executed:

3-23-98

Signature of Inventor:  
Inventor's name:  
Residence (City, County, State)

  
Jeff Klaas  
Austin, Travis County, Texas

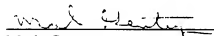
Date:

3/20/98

Date Application Executed:

3/23/98

Signature of Inventor  
Inventor's name:  
Residence (City, County, State)

  
Mark Gentry  
Austin, Travis County, Texas

Date:

3/23/98

Date Application Executed:

3/23/98

Signature of Inventor:  
Inventor's name:  
Residence (City, County, State)

  
Phillip Matthews  
Austin, Travis County, Texas

Date:

3/23/98

Date Application Executed:

3/23/98